



## SPECIAL FIELD LABORATORY MSP-95-06L

**1.0 Description.** This work shall consist of furnishing a special field laboratory for purposes of monitoring Superpave mixtures.

### **2.0 General.**

**2.1** A special laboratory shall be furnished in accordance with Sec 601.1 and the following, for Superpave mix field verification purposes. It shall meet the requirements described herein, including location of all specified appurtenances as shown in the attached drawing, "Special Field Laboratory Layout."

**2.2** The laboratory shall be in place and functional prior to any asphalt mix placement beginning on the project.

**2.3** The contractor shall maintain continuous, round the clock, power and water supply to the laboratory for the duration of the project.

### **3.0 Special Field Laboratory.**

**3.1 Exterior.** The laboratory shall be a minimum of 320 square feet (30 square meters), 8 feet (2.5 m) wide and 7 feet (2.1 m) high. A laboratory with the equivalent or greater of floor area and wall perimeter may be supplied with the engineer's approval. It shall be substantially constructed and weatherproof. It may be mounted permanently, as a trailer unit, or on skids. The floor of the laboratory shall be of adequate strength to support the testing equipment indicated.

**3.2 Windows/Doors.** It shall have a minimum of two outside doors and four windows. The necessary keys shall be furnished to the engineer. The outside doors shall be located so as to permit ingress and egress from opposite ends of the building. There shall be windows on at least two sides. Each window shall provide at least 4 square feet (0.37 square meters) of glazed area and permit opening to not less than 45 percent of the window area. At least one window shall provide a direct view of plant operations.

### **3.3 Interior.**

**3.3.1** Four anchored tables of the dimensions shown in the attached drawing shall be furnished. All tables shall have smooth one-piece tops.

**3.3.2** The laboratory shall be equipped with storage shelves and a minimum of four chairs, one moveable desk, a two drawer filing cabinet, and one fire extinguisher.

**3.3.3** An electric or gas hot plate with not less than two burners and adjustable temperature controls, capable of accommodating a 14 x 20 inch (355 mm x 510 mm) sample pan shall be provided.

**3.4 Utilities.** The contractor shall furnish electrical power, water, gas (if needed) and phone line.

**3.4.1** Circuitry shall be such that all indicated equipment can be used without disruption.

**3.4.2** A hot and cold potable water supply with a drained, faucet-equipped sink capable of accommodating a 14 x 20 inch (355 mm x 510 mm) sample pan shall be provided and located as specified.

**3.4.3** Lighting facilities of an approved type shall be provided so as to adequately light all working areas in the interior of the building.

**3.4.4** An actuated phone and facsimile machine with a private line is recommended to provide for faster communications when mix adjustments are needed.

### **3.5 HVAC.**

**3.5.1** The laboratory shall be equipped with ventilation for the forced draft ovens, and an exhaust fan capable of moving a volume of air each hour equal to at least ten times the cubic volume of the laboratory. The ventilation and exhaust fan shall be placed as is specified in the attached drawing.

**3.5.2** Climate control capable of maintaining an ambient temperature range of 72 °F to 80 °F (22 °C to 26 °C) shall be provided.

**4.0 Basis of Payment.** The accepted laboratory will be paid for at the contract lump sum price for "Special Field Laboratory".

**4.1** For projects awarded in combination, payment for the special field laboratory will be made only once, regardless if a special field laboratory is specified in each of the individual projects.

**4.2** Payment will be considered full compensation for all furnishings, maintenance, relocation from site to site on a project or projects awarded in combination, all utilities, heating and cooling facilities including operation and fuel, and final removal and disposal of the laboratory.

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## SPECIAL FIELD LABORATORY LAYOUT

- |                             |   |
|-----------------------------|---|
| ① MOVEABLE DESK             | ⑧ AIR CONDITIONER                                   |
| ② 30" (760 mm) HEIGHT TABLE | ⑨ AIR CONDITIONER                                   |
| ③ 30" (760 mm) HEIGHT TABLE | ⑩ 6" (150 mm) VENTILATION PIPE ALONG CEILING        |
| ④ SINK                      | ⑪ VENTILATION FAN                                   |
| ⑤ 30" (760 mm) HEIGHT TABLE | ⊕ 110 VOLT OUTLET LOCATED 5 FT (1500 mm) FROM FLOOR |
| ⑥ 36" (915 mm) HEIGHT TABLE | ⊕ 220 VOLT OUTLET LOCATED 5 FT (1500 mm) FROM FLOOR |
| PHONE                       | (15 AMP - NEMA L6-15R)                              |
|                             | (15 AMP - NEMA 6-15R)                               |
|                             | (50 AMP - NEMA 7-50R)                               |

Dimensions are nominal except where  
shown as minimums or maximums.

Note: SuperPave QC laboratories previously approved by the engineer are acceptable.

